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CLAIMS

- 1. A method for selecting a cell-based channel coding scheme, from a plurality of channel coding schemes, for use in initiating communication with subscriber units in a cell of a communication system, wherein the selection of the cell-based channel coding scheme is dependent on information relating to channel coding schemes used for communications with subscriber units in the cell.
- 2. The method as claimed in claim 1 also comprising the step of recording the channel coding scheme used for communication with at least a proportion of subscriber units in the cell.
- The method as claimed in claim 2 wherein the channel coding scheme used for each block of data in communications with subscriber units is recorded.
- 4. The method as claimed in claim 2 wherein the channel coding scheme in use at the end of a communication with a subscriber unit is recorded.
- 5. The method as claimed in one of claims 2-4 wherein the cell-based channel coding scheme is selected based on the recorded data.
- 6. The method as claimed in any preceding claim wherein the cell-based channel coding scheme is selected based on the channel coding scheme most commonly used in communication with subscriber units in the cell.
- 7. The method as claimed in any preceding claim wherein an uplink cell-based channel coding scheme and a downlink cell-based channel coding scheme are selected separately.

8. The method as claimed in claim 7 wherein the uplink cell-based channel coding scheme is selected is dependent on information relating to channel coding schemes used for uplink communications from subscriber units in the cell.

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- 9. The method as claimed in claim 7 wherein the downlink cell-based channel coding scheme is selected is dependent on information relating to channel coding schemes used for downlink communications to subscriber units in the cell.
- 10. The method as claimed in any preceding claim comprising the step of determining that initiation of a communication to a subscriber unit using the cell-selected channel coding scheme is unsuccessful and selecting a more robust channel coding scheme for a further attempt at initiating communication with that subscriber unit.
- 11. The method as claimed in any preceding claim comprising the step of recording a final channel coding scheme used for a communication with a subscriber unit, and using said final channel coding scheme instead of the cell-based channel coding scheme for initiating a communication with the subscriber unit within a predetermined period from the finish of the previous communication.
- 12. A method for communicating with a subscriber unit, comprising the step of allocating an initial channel coding scheme to the communication, the initial channel coding scheme being a channel coding scheme selected in accordance with one of claims 1-11; and altering the channel coding scheme during the communication based on radio condition information.

13.A storage medium storing processor-implementable instructions for storing a processor to carry out the method of any of claims 1-12.

14. Apparatus comprising

a processor for selecting a cell-based channel coding scheme, from a plurality of channel coding schemes, for use in initiating communication with subscriber units in a cell of a communication system, wherein the selection of the cell-based channel coding scheme is dependent on information relating to channel coding schemes used for communications with subscriber units in the cell.

- 15. An apparatus as claimed in claim 14 also comprising a memory for storing information relating to channel coding schemes used for communications with subscriber units in the cell.
- 16. The apparatus as claimed in one of claims 14 or 15 wherein the apparatus is a packet control unit
- 17. A method substantially as herein described with reference to the accompanying drawings.
- 18. Apparatus substantially as herein described with reference to the accompanying drawings.